A.I.A. FILE NO. 16-E

HOPE'S

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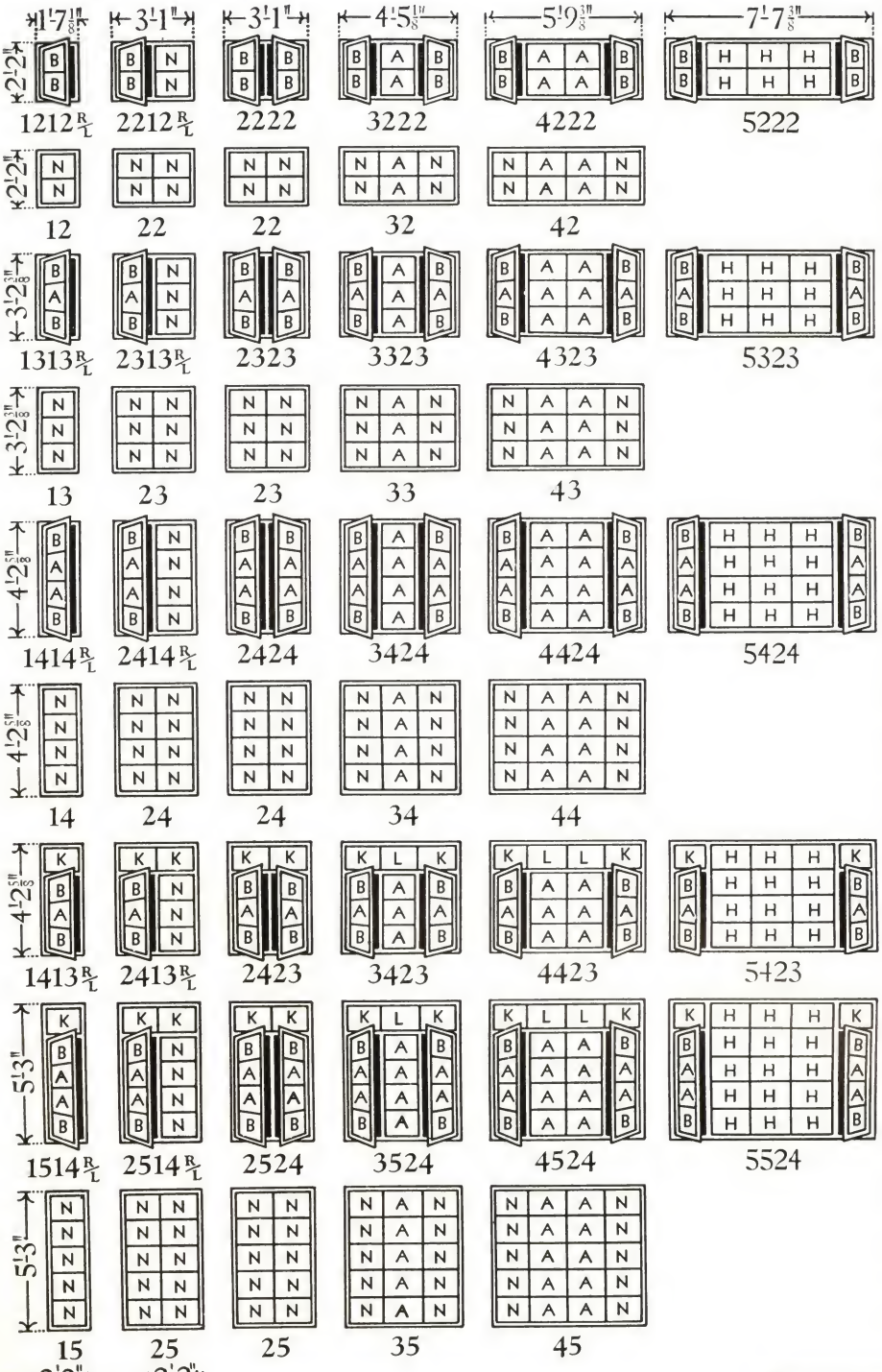
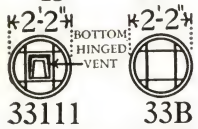
STEEL WINDOW INSTITUTE · MEMBER ·

Sweet's Light Construction File 1955

HOPE'S RESIDENCE (*Holford*) CASEMENTS

STANDARD TYPES AND SIZES





33111 33B

Glass templates for these bullseye windows supplied by Hope's upon request.

ALL muntins may be omitted for leaded lights or single panes of glass. F.M. (full muntin) types can be supplied from the factory against orders for 300 units or more. Steel frame screens (with bronze mesh) are kept in stock in standard sizes to fit the above casements.

TYPES and sizes shown are as recommended by the Steel Window Institute.

THE standard roto, lever and fixed types shown hereon are kept in stock for warehouse shipment in all states except Washington, Oregon, California, Idaho, Utah, Nevada and Arizona. Refer to Head Office for leaflet showing types and sizes stocked in those states.

SIZES shown hereon are actual sash sizes; see full size section shown on page 3.

ELEVATIONS are shown as viewed from outside. Types containing single casements, for example: 1212, 1313, 2414, 2514, etc., are shown as left hands (indicate by suffix "L"). When the opposite hand is required please order them as right hands (indicate by suffix "R").

HOPE'S Residence Casements can be glazed with Libby-Owens' Thermopane, Pittsburgh Plate's Twindow or like insulating glass provided that the maximum overall thickness is 9/16". See page 4 for Picture Window information.

GLASS sizes shown in the glass schedule are for guidance only and should be verified on the job. When Thermopane is used refer to factory for sizes.

GLASS SIZES						
	A	B	H	K	L	N
WIDE	16"	16"	$17\frac{7}{8}$"	$17\frac{1}{4}$"	16"	$17\frac{1}{4}$"
HIGH	12"	$11\frac{5}{16}$"	12"	$11\frac{5}{8}$"	$11\frac{5}{8}$"	12"

HOPE'S RESIDENCE (*Holford*) CASEMENTS

HARDWARE AND SPECIFICATIONS

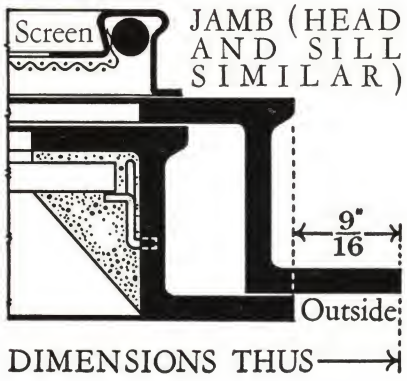
FOR ROTO OR LEVER TYPES

SCOPE AND CONSTRUCTION—All windows shall be Hope's Residence (*Holford*) casements (roto or lever type) in the standard types and sizes as indicated by reference numbers on the drawings. Casements shall consist of inner and outer frames of solid rolled low carbon new billet steel having a minimum depth of 1″ from front to back and a combined weight of not less than 2.1 lbs. per lineal foot (exclusive of angle fins or hardware). All corners shall be solid welded and neatly cleaned off with faces finished smooth. Sections shall provide a continuous two point flat weathering contact between the inner and outer frames throughout the perimeter of the casement without the aid of loose or applied linings. All side hung casements shall open outwards. Muntins shall consist of rolled steel tee sections, carefully coped and riveted to ventilators and/or frames.

HARDWARE—All casements shall be hung on mild steel extension cleaning hinges having solid brass pins and washers, and shall be fitted with standard fastener No. 92 and standard roto-operator No. A90. (Hope's standard LEVER operator No. 93 is interchangeable with standard roto-operator No. A90 and costs less—specify it when required.)

PAINTING—All steel work shall be cleaned free from rust and loose scale and shall be bonderized and painted one coat of DuPont's special rust-inhibitive primer stoved on at 325 degrees F. for at least 35 minutes. Field coats of paint shall be applied by the painting contractor. (We recommend one field coat before glazing and one field coat promptly after the glazing compound has set.)

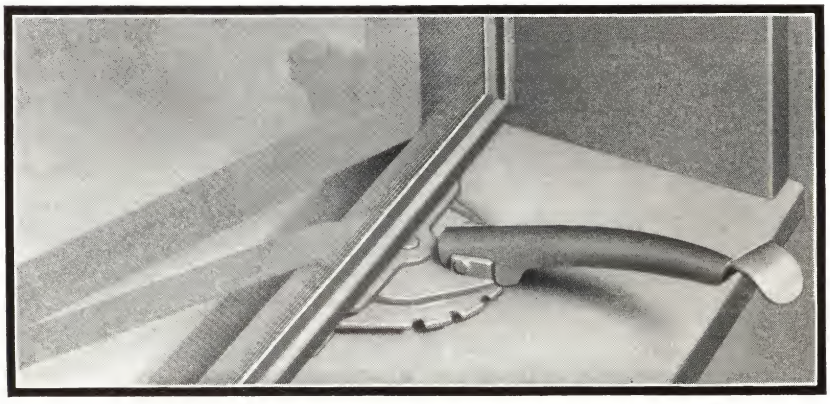
GLAZING—Windows shall be arranged for outside glazing with steel sash glazing compound. Glass, steel sash glazing compound, glazing and glazing clips shall be by glazing contractor.



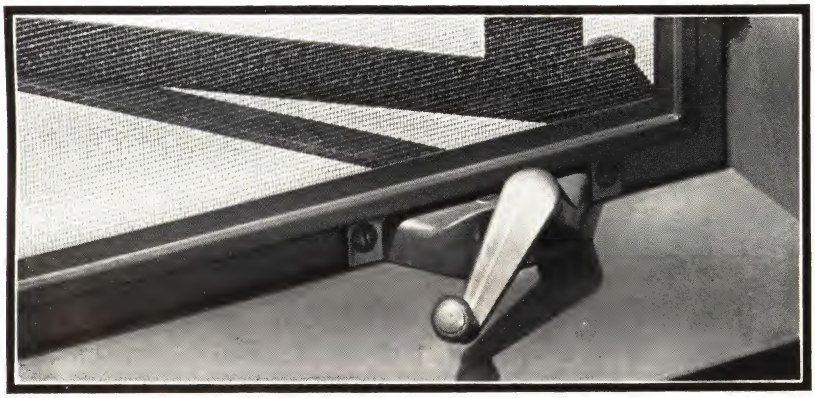
SCREENS for roto or lever types shall also be furnished by Hope's Windows, Inc., carefully packed and shipped separately. Screen frames shall be steel, rewireable, chemically treated, prime coated one coat gray rust-inhibitive primer stoved on and filled with 18 x 14 mesh bronze wire cloth, or 18 x 14 galvanized and iridited steel wire cloth, held in place with solid steel splines. Screen fastenings shall permit easy attachment or removal from the interior side

REDWOOD SURROUNDS of California clear heart redwood kiln dried, shall be supplied in standard sizes to fit the windows with head, jamb and sill pieces cut to exact length, coped and mitered at the corners for easy field attachment, then bundled together with ends protected for shipment with the windows.

INSTALLATION—All windows shall be installed by Hope's Windows, Inc., set plumb and true, properly aligned and securely anchored in accordance with manufacturer's standards. This contractor shall also properly adjust all ventilators before glazing by glazing contractor



LEVER OPERATOR No. 93 (Left Hand)

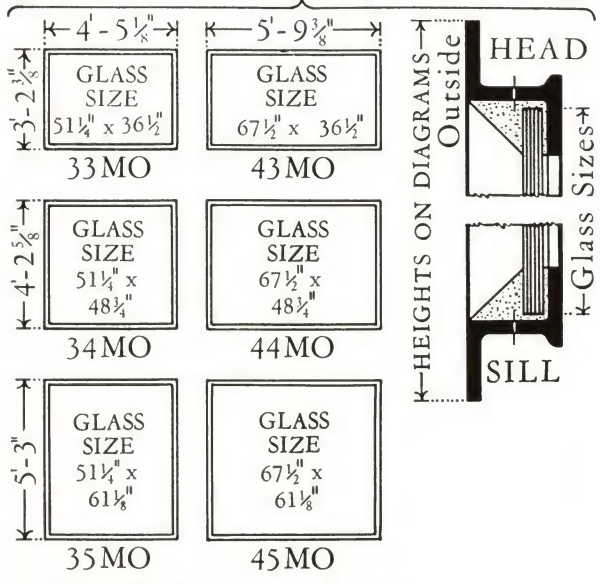


ROTO OPERATOR No. A90 (Left Hand) and FASTENER No. 92 (Left Hand)

HOPE'S RESIDENCE (*Holford*) CASEMENTS

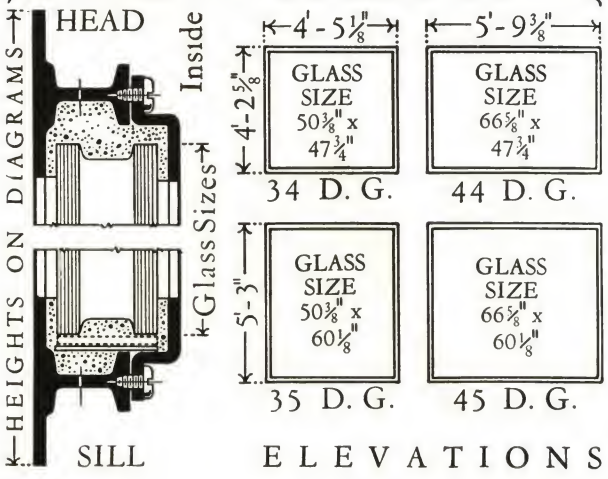
PICTURE WINDOWS IN STANDARD SIZES

OUTSIDE PUTTY GLAZED TYPES
FOR USE WITH SINGLE GLASS

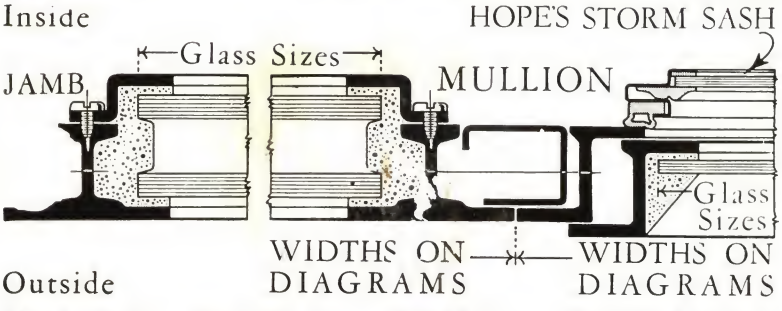


E L E V A T I O N S

INSIDE GLAZED TYPES FOR USE
WITH STOCK SIZE THERMO GLASS



E L E V A T I O N S



H A L F F U L L S I Z E D E T A I L S

Picture Window
Residence of Mr. Ernest Fox, Frewsburg, N. Y.

ANY of Hope's Picture Windows shown hereon can be installed as single units in an opening, or when ventilation is required, in combination with any of the casements diagrammed on page 2. The interesting view in the picture above is framed by a Hope's Picture Window type 34 D.G. with a roto type 1414 Residence casement at either side for ventilation. A detail of the steel connecting mullion is shown at bottom left of this page.

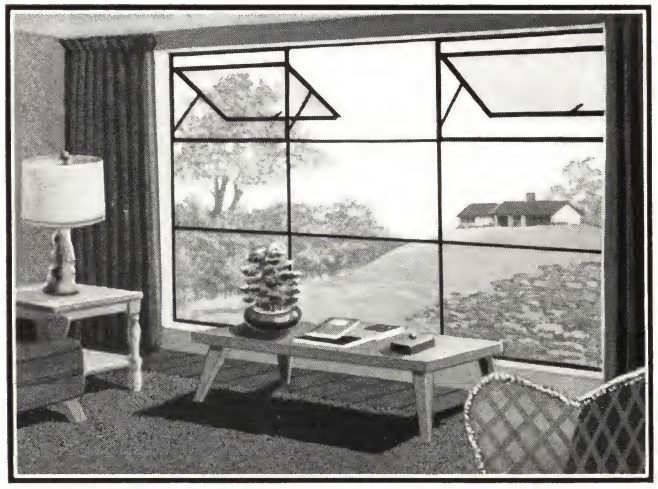
THE six standard types of Hope's (*Holford*) Picture Windows shown in the first group are arranged for outside putty glazing with single panes of sheet or plate glass. These six types are shipped as completely fabricated units with all corners solid welded at factory. At a worthwhile saving in price they can also be furnished knocked down for field assembly.

THE four standard types of Hope's D.G. type Picture Windows, second group, are shipped as completely fabricated units, factory fitted with angular steel glazing beads spaced to receive stock sizes of nominal 1″ thick "Thermopane" "Twindow" or like insulating glass furnished by others

GLASS, glazing clips, steel sash putty and glazing shall be by glazing Contractor.

HOPE'S RANCH TYPE WINDOWS

BASIC TYPES, SIZES AND DESCRIPTION



DESIGNED for use in the increasingly popular style of residence for which they are named, Hope's Ranch Type Windows are equally effective in other styles of architecture, in other types of buildings, and with any conventional type of construction.

Hope's Ranch Type Windows are strongly made from 1⅜" solid hot rolled steel frame sections and ⅞" x 1⅜" vertical muntins. Ventilators project out and are prepared to receive standard screens. Unless specified otherwise, ventilators are located in the positions shown in elevations at right and may be omitted entirely when preferred.

ADVANTAGES

1. Specially designed for insulating glass, putty glazed with glazing clips. All fixed panes will accommodate standard ½" thick 36" x 24" units of Thermopane or Twindow. May also be glazed with single panes of double strength or plate glass.

2. Greater strength and rigidity. Muntin intersections are assembled with Hope's Lok'd Bar joint, strongest joint known. Ventilator frames are solid welded at corners.

3. Double steel to steel contacts around perimeter of each ventilator assure weathertight closing and minimum air-infiltration.

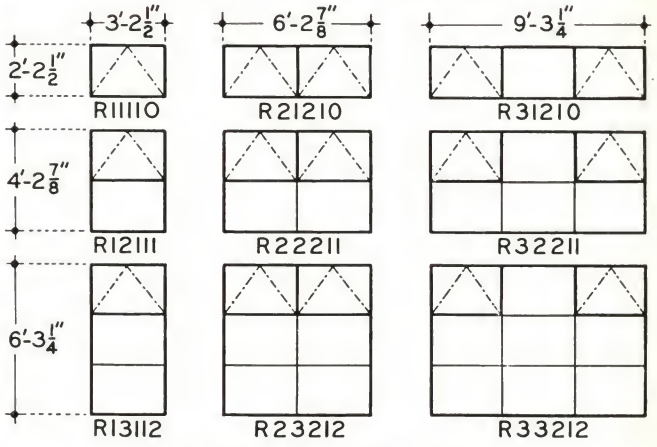
4. Ventilators project outward at bottom; awning effect permits ventilation even in rainy weather.

5. Bonderized and dipped one coat DuPont's special rust-inhibitive primer stoved on.

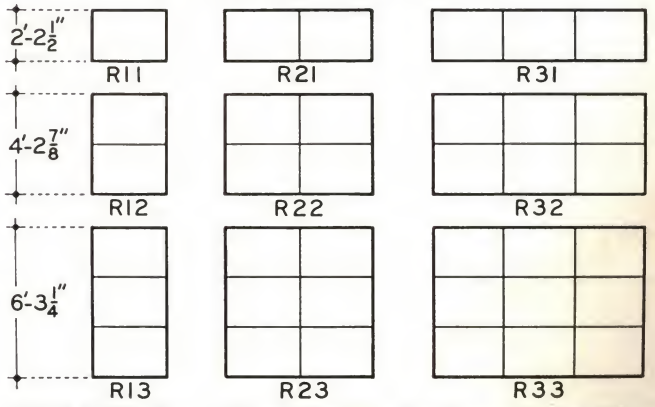
6. Inside steel frame screens quickly and safely attached from interior are hinged at top for easy access to fastener. No cumbersome wicket to mar the view. Screens are prime coated and filled with 14 x 18 mesh bronze wire cloth.

7. The "show window" effect of large undivided areas of glass is minimized by generous well proportioned panes which admit abundant light and provide picture window view.

VENTED TYPES



FIXED TYPES

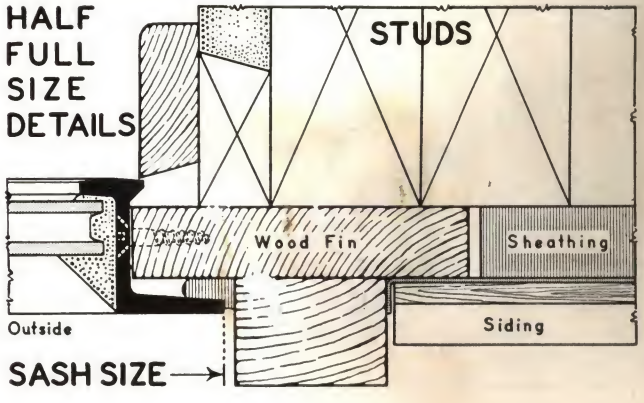


GLASS SIZES: Fixed Lights 36" x 24", Ventilators 33½" x 21½".

INSTALLATION

Hope's Ranch Type Windows are not load bearing and may be installed in all conventional types of construction. The jamb detail suggested below provides a simple method of installing Hope's Ranch Type Windows in wood frame construction.

Hope's Inside-Outside Combination Metal Trim (pages 6 and 7) and Standard Steel Casings (page 8) are also available for Hope's Ranch Type Windows.



HOPE'S INSIDE - OUTSIDE COMBINATION METAL TRIM

Designed for use with Hope's Residence (*Holford*) Casements in wood frame, brick veneer, masonry block or solid masonry construction this new easily assembled, quickly installed steel trim provides a unit which for high quality workmanship and easy low cost installation cannot be excelled.

ADVANTAGES

1. *SIMPLIFIES PREPARATION OF ROUGH OPENING*—locate the studs, nail the sheathing, trim the sheathing flush and the opening is ready.

2. *FAST, EASY INSTALLATION*—plumb and nail the complete unit to the sheathing and the window is completely trimmed inside and out with no finish carpentry required.

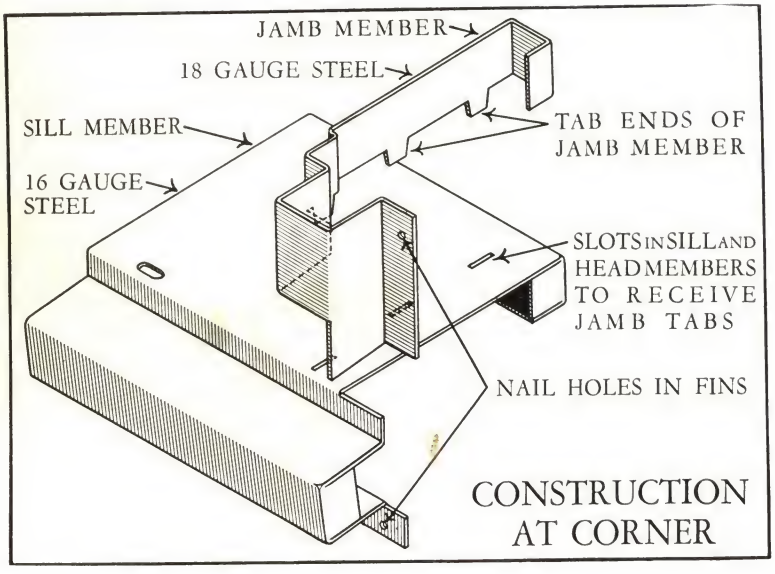
3. *PROVIDES TEMPLATE FOR BUILDER*—stops are provided on the inside for wallboard or plaster and on the outside for brick, clapboards, shingles, stucco, etc.

4. *FIRE SAFE and VERMIN PROOF*—made of solid steel.

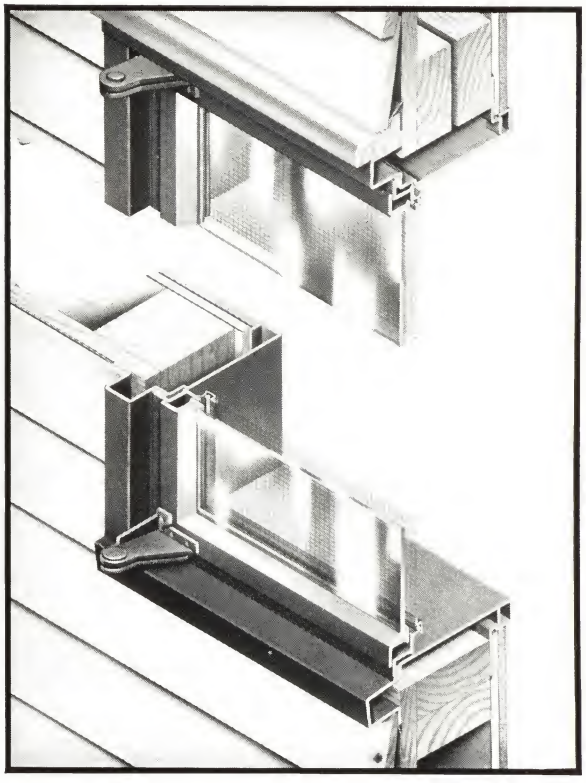
5. *VENETIAN BLINDS and WINDOW SHADES*—can be cut to standard widths at reduced costs.

6. *EASY TO MAINTAIN*—the hard smooth interior surfaces of the trim are easy to clean—never warp, shrink or swell.

7. *SHIPPED K.D.*—for easy assembly in warehouse or at site.



CONSTRUCTION AT CORNER



Hope's Combination Inside-Outside metal trim is available for all Hope's Residence (*Holford*) Casements shown on page 2 hereof and for multiple openings containing a 3 or 4 light wide unit with a one light wide unit at each jamb.

Inside-Outside trim is also available for all Hope's Ranch Type Windows shown on page 5.

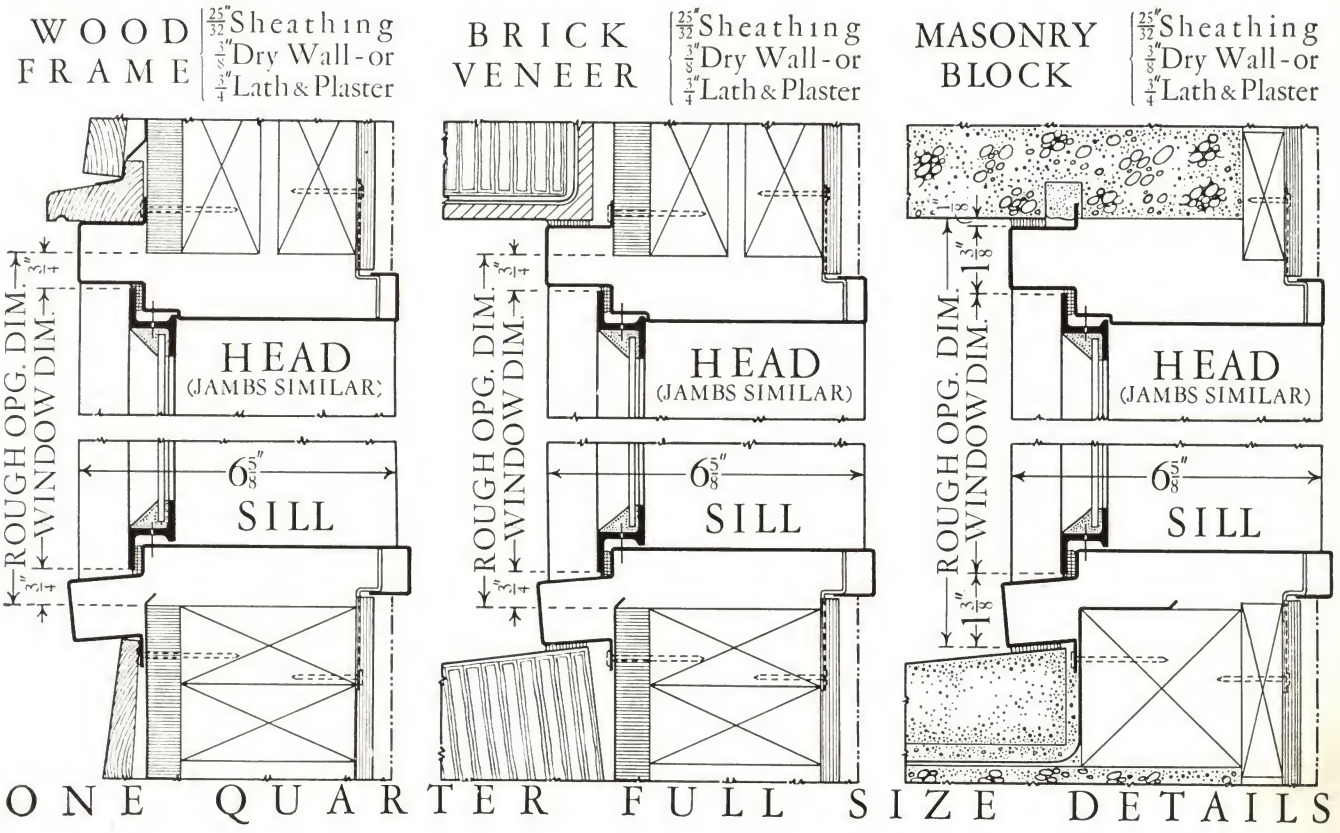
SPECIFICATIONS

Head and jamb members are 18 gauge steel, sill is 16 gauge steel; bonderized and dipped one coat DuPont's special anti-corrosive paint stoved on.

CONSTRUCTION FEATURES

Steel trim members are formed in one piece, ends are coped and fitted for precise fit. Head member over-laps jamb members for rigid weathertight joints. Sill member projects ¼" beyond vertical exterior and interior surfaces of jamb members for weathering and appearance.

HOPE'S INSIDE-OUTSIDE COMBINATION METAL TRIM

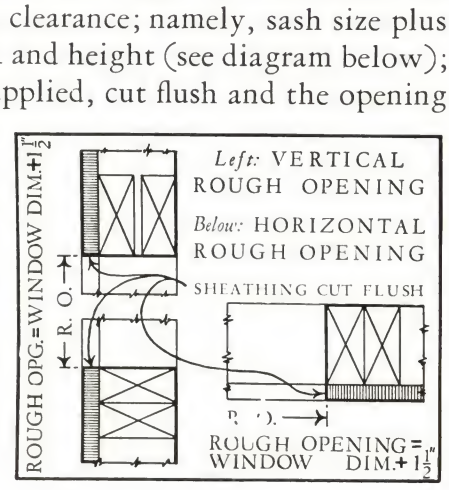


ONE QUARTER FULL SIZE DETAILS

PREPARING ROUGH OPENING

INSTALLATION begins with the preparation of the rough opening and when Hope's Combination Inside-Outside metal trim is used this is extremely simple.

STUDS, headers and rough sills are located to the proper clearance; namely, sash size plus 1½″ in width and height (see diagram below); sheathing is applied, cut flush and the opening is ready to receive the assembled unit. It is not necessary to recess the sheathing for stops, fins, anchors, etc.



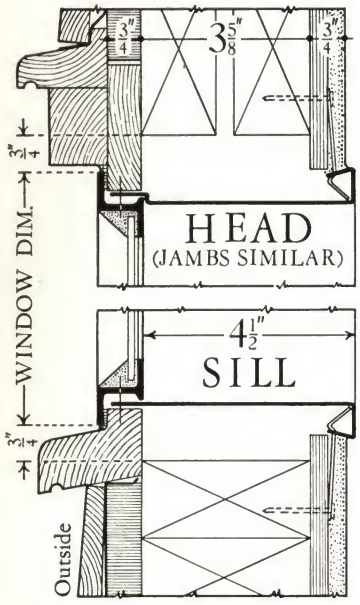
INSTALLING TRIMMED UNIT

EASILY accomplished by one man using only a level, a hammer and nails. The assembled unit is placed in the opening, wedged into position, plumbed and nailed in place. Nailing is from the outside, through holes provided in the trim—see details above, and nails go through the sheathing into the studs. Strap anchors are then inserted—see details—and nailed to the studs or furring.

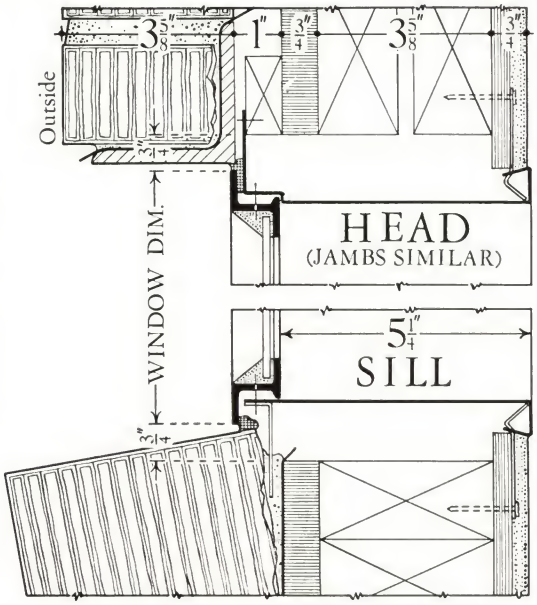
THE speed and simplicity of installation makes Hope's Combination Inside-Outside metal trim a quick and economical means of installing standard residence casements in all types of construction; there is no outside casing or inside trim to buy, cut, fit or install and anyone able to follow simple instructions can make speedy and perfect installations.

HOPE'S INSIDE METAL TRIM

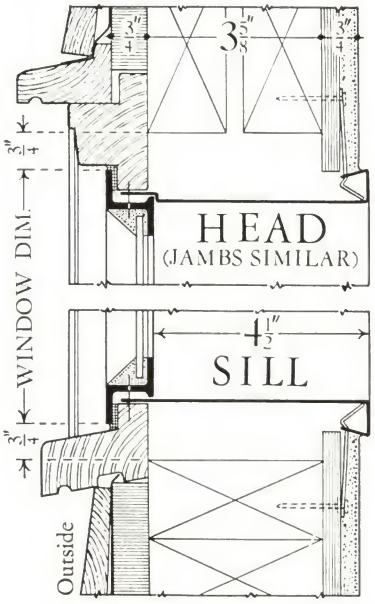
STANDARD STEEL CASINGS



FRAME CONSTRUCTION—WOOD OR STEEL FINS AT HEAD AND JAMBS



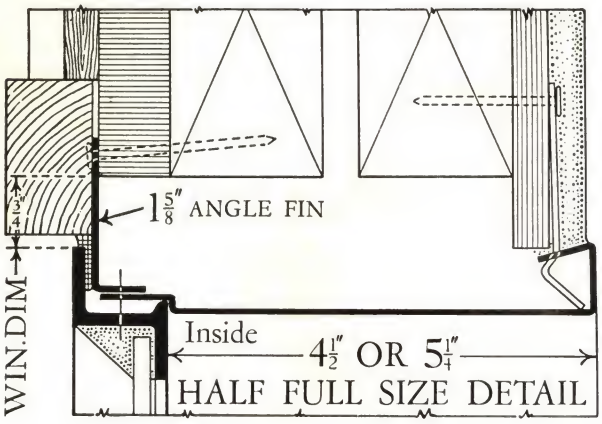
BRICK VENEER—METAL CASINGS HAVING INTEGRAL FINS AT HEAD AND JAMBS

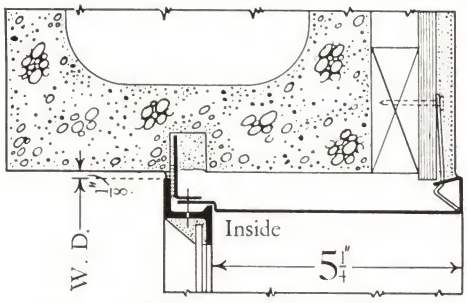


FRAME CONSTRUCTION—HOPE'S REDWOOD SURROUNDS AND METAL CASINGS

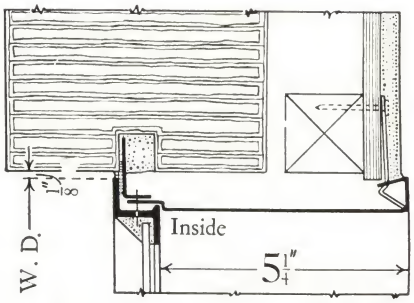
HOPE'S standard Steel Casings (inside metal trim) may be used with all types of building construction. Their use cuts installation time and material costs by eliminating window stools, aprons, corner beads, etc. Fire resistant and vermin proof, they cannot warp, shrink or swell and their hard smooth surface is easy to keep clean. During construction they act as stops for the interior plaster or drywall finish. Head, jambs and sill are 18 gauge steel, bonderized and dipped one coat of DuPont's special anti-corrosive paint stoved on.

HOPE'S standard Steel Casings are available from stock for all Hope's Residence (*Holford*) Casements (page 2) and all Hope's Ranch Type Windows (page 5) in 4½" or 5¼" depths as required. They are shipped knocked down for easy field assembly and attachment to casements with self-tapping screws.





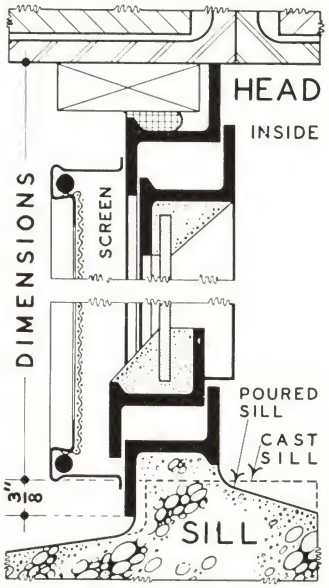
MASONRY BLOCK—JAMB (HEAD SIMILAR) 1⅝" ANGLE FINS AND 5¼" METAL TRIM



"SCR" BRICK—JAMB (HEAD SIMILAR) 1⅝" ANGLE FINS AND 5¼" METAL TRIM

INSTALLATION DETAILS ONE QUARTER FULL SIZE

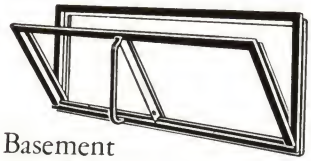
HOPE'S BASEMENT and UTILITY WINDOWS



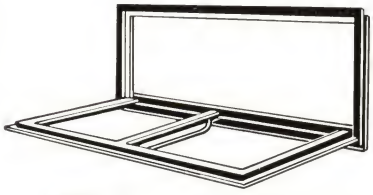
HOPE'S Basement & Utility windows pivot from the bottom to open inward. Ventilators are easily removed from the frame leaving full opening free for any purpose. Screens are easily attached to exterior side.

When two or more units are joined together by the steel mullion shown below, resulting overall opening width will be the sum of the diagram widths of each unit used plus 1¼" for each mullion used.

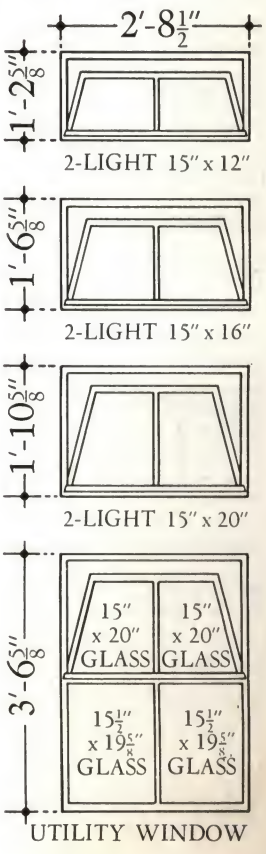
Note that dimensions shown on diagrams are opening sizes.

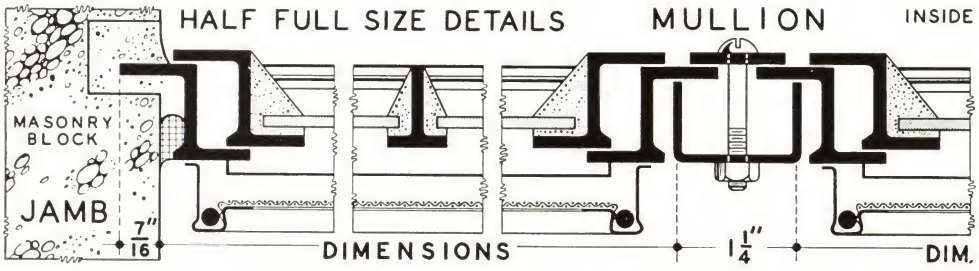


Basement Window with Ventilator in intermediate position.



Window with Ventilator in fully open position.

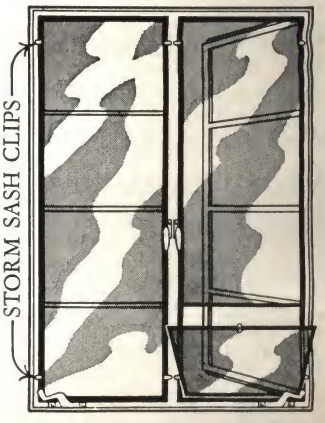




HOPE'S STEEL FRAME STORM SASH

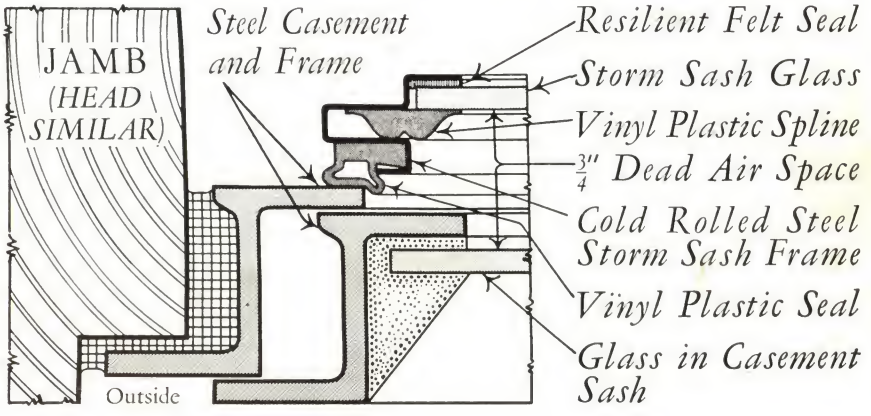
HOPE'S Storm Sash can be supplied from stock for every type of Residence (*Holford*) Casement. Interchangeable with Hope's screens, they lie flat against the inside of the casement and present an excellent appearance being hardly noticeable from inside or outside. Each Storm Sash panel is of reasonable size to permit convenient installation or removal by one person from within the room.

MADE from cold rolled steel, heavily reinforced, electrically welded at corners, prime painted one coat of rust-inhibitive grey primer stoved on; packaged and shipped glazed complete with clear double strength glass bedded on impregnated felt and held in place with vinyl plastic splines easily removable for glass replacement.



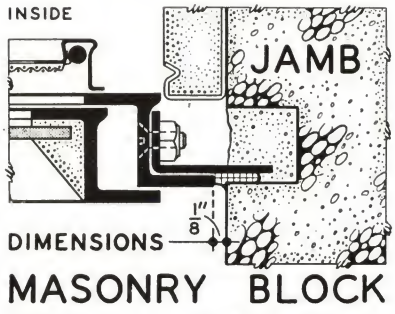
Interior view of two Storm Sash panels (one with tilt-in sill ventilator) attached to a type 2424 Standard Residence Casement.

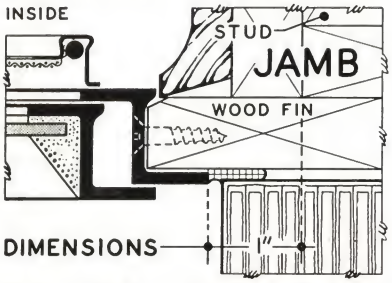
FULL SIZE SECTION



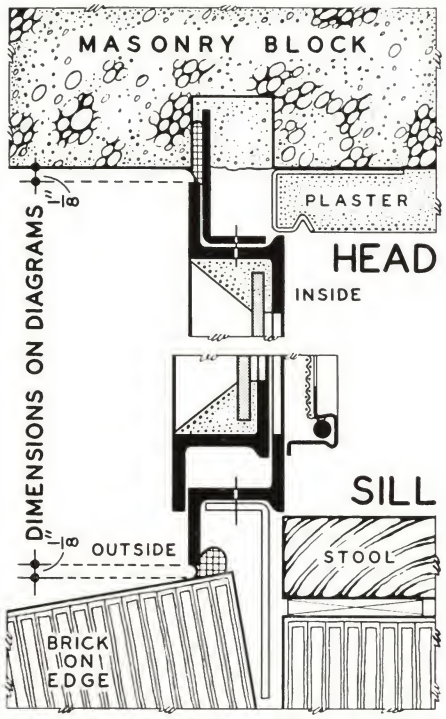
HOPE'S "tilt-in" sill ventilators, with ventilator opening restricted by stop flanges to about 3" can be fitted into Hope's Storm Sash at slight extra cost and are recommended when slight ventilation is required in bedrooms or other locations.

TYPICAL INSTALLATION DETAILS

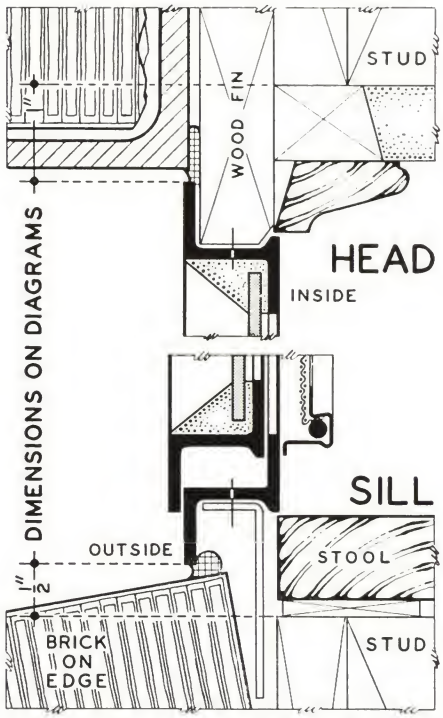




HALF FULL SIZE DETAILS



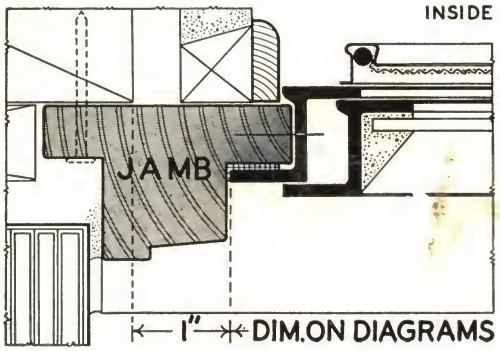
MASONRY BLOCK

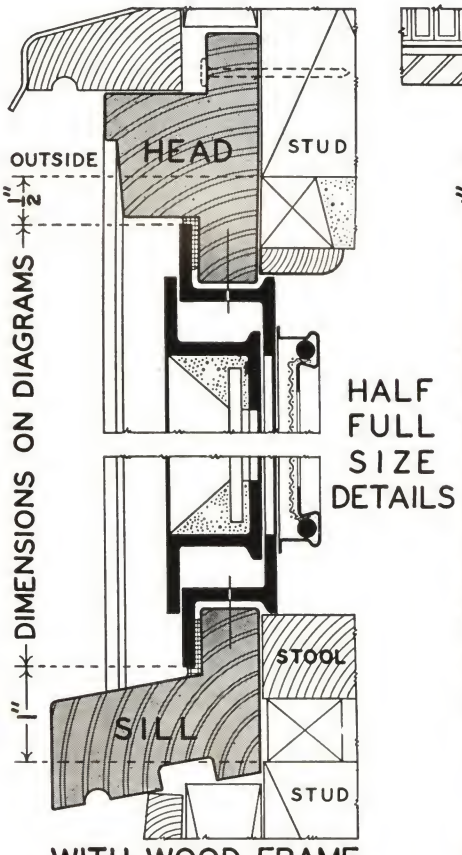


BRICK VENEER

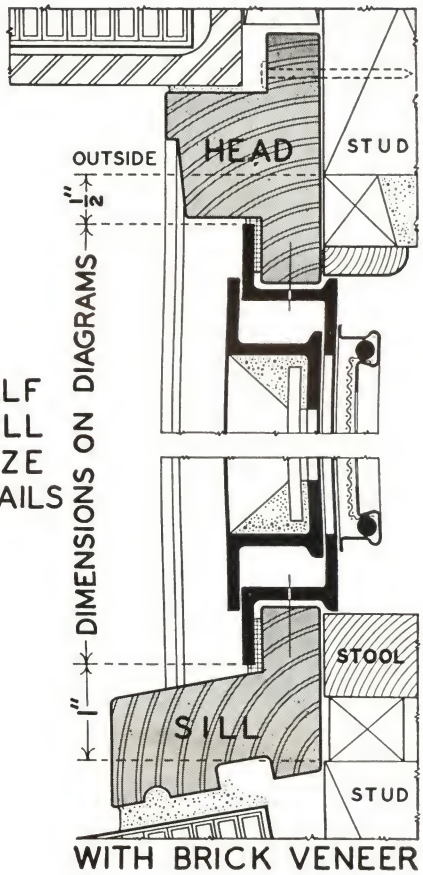
HOPE'S REDWOOD SURROUNDS

Hope's Redwood Surrounds of kiln dried California clear heart redwood can be furnished for any of Hope's Residence (*Holford*) casements diagrammed on page 2. Hope's Redwood Surrounds are cut to exact length, coped and mitered at the corners for easy field attachment, then bundled together with ends protected for shipment with the windows.





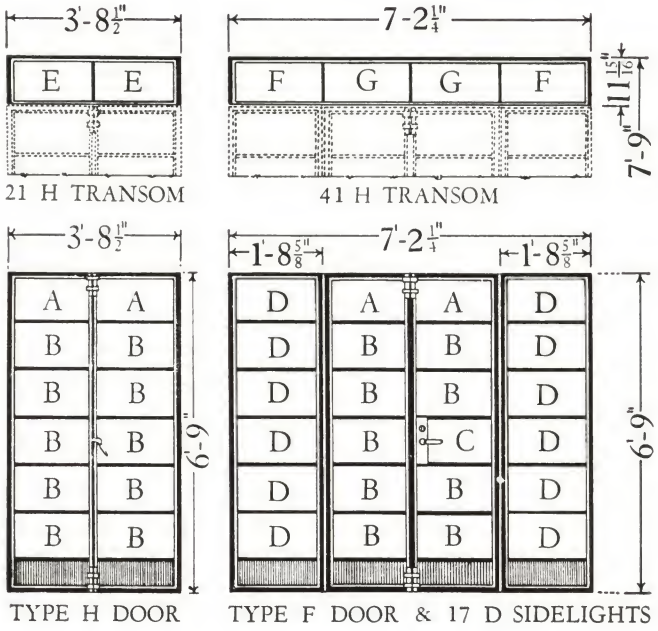
WITH WOOD FRAME

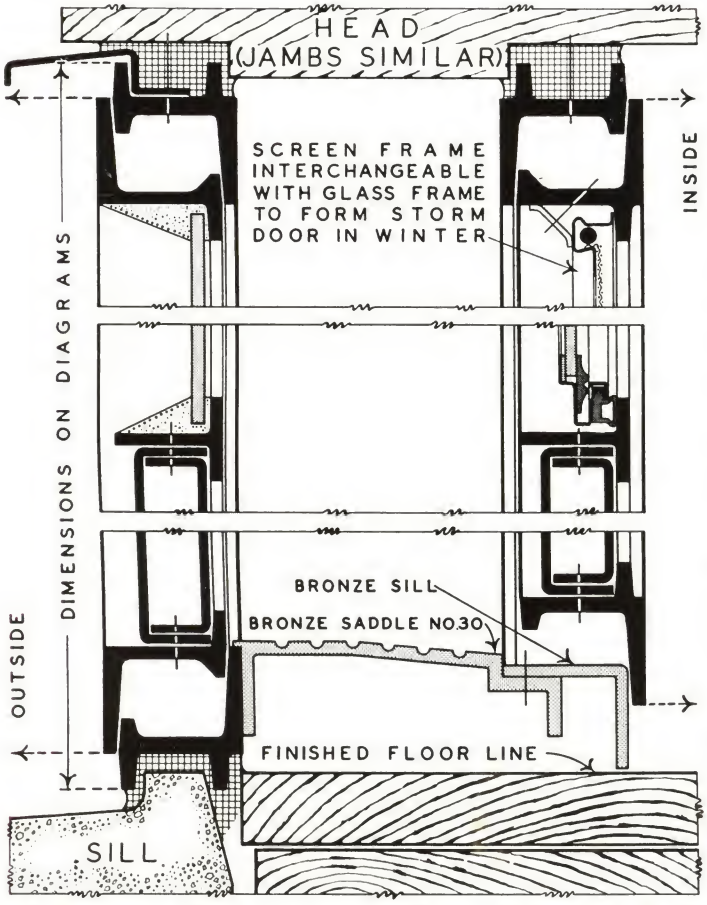


WITH BRICK VENEER

HOPE'S TYPES "H" AND "F" DOORS

COST LESS THAN FIRST GRADE WOOD DOORS





HALF FULL SIZE DETAILS

HOPE's type "H" and "F" doors, low priced to compete with first grade wood doors, are made from strong steel casement sections with slender sight lines, and are specially suited for porches, sun parlors or other rooms where an "open" effect and extra sunlight is desired.

THE overall height of 7' 9" shown at left includes allowance for the steel transom bar, and the overall width of 7' 2¼" also shown at left includes allowance for the steel connecting mullions.

HOPE's type "H" doors, diagrammed at left, open outward and are operative from inside only. Hardware consists of solid bronze top and bottom bolts on both leaves and solid bronze fastener on active leaf. Bronze thresholds are available at a small extra cost and should be specified when required.

HOPE's type "F" doors, diagrammed at left, also open outward but are operative from outside as well as inside. Hardware consists of solid bronze top and bottom bolts on both leaves, a mortise lock on the active leaf with solid bronze lever handle inside and outside and a thumb turn on the inside. Type "F" doors can also be furnished with cylinder locks and/or bronze thresholds at a small extra cost; specify these when required.

OTHER types of side lights and transoms than those detailed hereon, are available for both doors. Combination screen and storm doors, which open in; can also be supplied if desired. All doors are hung on close type friction hinges and can be supplied without muntins (our type HMO or FMO) to receive leaded or plain sheets of glass. Particulars and prices can be obtained from our nearest representative.

THE half full size details at left are for a type "F" door with double rebated bronze threshold. Single rebated threshold can be furnished as desired. The details also include sections thru Hope's combination screen and storm door.

GLASS sizes shown in the glass schedule below are for guidance only and should be verified on the job. When Thermopane is used refer to factory for sizes.

GLASS SIZES							
	A	B	C	D	E	F	G
WID	2 9"	"	17 5/16"	19"	21"	19⅞"	22"
HIGH	11 4/16"	1	12	12"	11"	11"	11"

House in E. L. Mackle's 435-home development, Coral Gables, Florida
Nearly 4000 Hope's Residence (*Holford*) Casements were installed.

Residence near Bemus Point, New York
Hope's Residence (*Holford*) Casements and Picture Windows.

HOPE'S WINDOWS, INC.

JAMESTOWN, NEW YORK JAN. 1, 1955

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REPRESENTATIVES IN ALL OTHER CITIES

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